Section 3. Amendments to the Claims

Please cancel claims 24 and 32 and amend the claims 1-23 and 25-31, as set out below in the listing of claims 1-32 of the application:

1. (Currently amended) ~~Extrusion~~ An extrusion apparatus comprising:
at least one first reservoir ~~(1)~~ connected at a first end to a first opening of a plurality of regulatory modules ~~(4)~~ containing passages ~~(17)~~, through which material ~~(25)~~ is excludable, wherein the extrusion apparatus ~~(4)~~ has at least 1000 ~~passage (17)~~ passages per square meter cross-section.

2. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1, wherein the regulatory module ~~(4)~~ additionally comprises at least one second reservoir.

3. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 2, wherein the second reservoir is fluidly connected to at least an opening in at least one of the passages ~~(17)~~.

4. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1 ~~one of the above claims~~, further comprising sensors ~~(70)~~.

5. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1 ~~one of the above claims~~, further comprising at least one sensor selected from the group consisting of ~~the following sensors:~~ pressure sensors, temperature sensors, chemical sensors, pH sensors ~~and/or~~ and light-scattering sensors.

6. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1 ~~one of the above claims~~, wherein at least one of the regulatory modules ~~(4) comprise~~ comprises at least one individual sensor (70).

7. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 4 ~~one of the above claims~~, wherein the sensors are integral to the regulatory modules ~~(4)~~.

8. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1 ~~one of the above claims~~, wherein the regulatory modules ~~(4)~~ further ~~additionally~~ comprise ~~one or more pumps (2)~~ at least one pump.

9. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1 ~~one of the above claims~~, wherein the regulatory modules ~~(4)~~ further ~~additionally~~ comprise at least one pump selected from the group consisting of piezo-electric pumps and ~~or~~ vibration pumps ~~(2)~~.

10. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1 ~~one of the above claims~~, wherein the passages comprise tubular passages ~~(17) have~~ having flow inlets.

11. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1 ~~one of the above claims~~, wherein said passages have interior walls ~~the interior wall of the passages (17) are made of~~ comprising a permeable material.

12. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1 ~~one of the above claims~~, wherein the regulatory modules ~~(4)~~ are injection ~~moulded~~ molded.

13. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1 ~~one of the above claims~~, wherein the regulatory modules (4) are formed by ablasion.

14. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1 ~~any of the above claims~~, wherein in operation the material ~~(25)~~ is drawn down at a first distance at least 0.5 mm from an outer exit opening ~~(13)~~ within the passages ~~passage (17)~~.

15. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1 ~~any one of the above claims~~, wherein a component of the material ~~(25)~~ in an initial zone in one of the passages ~~(17)~~ forms rod-shaped units ~~(64)~~ that are substantially perpendicular to ~~the~~ an internal surface of the passage ~~(17)~~.

16. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1 ~~any one of the above claims~~, wherein a component of the material ~~(25)~~ in a subsequent zone ~~(62)~~ of one of the passages ~~(17)~~ has rod-shaped units ~~(64) which~~ that tumble as material ~~(25)~~ flows within the passage ~~(17)~~.

17. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1 ~~any one of the above claims~~, further comprising a ridged surface ~~(66)~~ having a plurality of ridges ~~(60)~~ on ~~the~~ an internal surface of the passages ~~passage (17)~~.

18. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 17, wherein ~~the~~ height of the ridges ~~(60) are~~ is less than 10% ~~than the~~ of diameter of the passages ~~passage (17)~~.

19. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 17 ~~one of claims 17 or claim 18~~, wherein the ridged surface ~~(66)~~ has a surface energy lower than ~~the~~ surface energy of the material ~~(25)~~.

20. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 17 ~~one of the claims 17 to 19~~, wherein the passages are tubular passages, and the ridges ~~(60)~~ are substantially oriented along a long axis of the tubular passages ~~passage (17)~~.

21. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 17 ~~one of the claims 17 to 20~~, wherein the ridges ~~(60) are made of~~ comprise hydrophobic material.

22. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 17 ~~one of the claims 17 to 20~~, wherein the ridges ~~(60)~~ are coated with hydrophobic material.

23. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 22 ~~one of the claims 17 to 22~~, ~~wherein the~~ constructed and arranged so that draw down of material occurs substantially adjacent to the hydrophobic material coated on the ridges ~~ridged shaped surface coating (66)~~.

24. (Cancelled)

25. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1 ~~any one of the above claims~~, further comprising cleaning apparatus.

26. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 25, wherein the cleaning apparatus comprises ~~comprised~~ a permeable interior wall in said passages ~~of the passage (17)~~ through which cleaning agents are introduced.

27. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 26, wherein the cleaning agents ~~are~~ comprise alkaline fluids.

28. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 3 ~~one of claims 3 to 27~~, further comprising a microprocessor connected to at least one of the sensors ~~(75) connected to the sensor (70)~~.

29. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 28, wherein the microprocessor ~~(75)~~ has an output for sending signals to regulate at least one parameter of the extrusion apparatus.

30. (Currently amended) ~~Extrusion~~ An extrusion apparatus, according to claim 28 ~~one of claims 28 or 29~~, wherein the microprocessor ~~(75)~~ is integral to the regulatory modules ~~module (4)~~.

31. (Currently amended) ~~Extrusion~~ An extrusion apparatus according to claim 1 ~~any one of the above claims~~, wherein the extrusion apparatus is a spinning apparatus.

32. (Cancelled)